

The first of these is the fact that the
 \mathcal{H}^1 norm is not a norm on the space of
 functions of bounded variation. This is
 because the \mathcal{H}^1 norm is not
 additive. For example, if f and g are
 functions of bounded variation, then
 $\mathcal{H}^1(f+g) \leq \mathcal{H}^1(f) + \mathcal{H}^1(g)$,
 but the reverse inequality does not hold
 in general. This is because the
 \mathcal{H}^1 norm is not a norm on the space
 of functions of bounded variation.

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